

DEPARTMENT OF TRANSPORTATION

DIVISION OF ENGINEERING SERVICES

Office of Structural Materials

Quality Assurance and Source Inspection



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Contract #: 04-0120F4Cty: SF/ALA Rte: 80 PM: 13.2/13.9File #: 69.15**SOURCE INSPECTION REPORT****Resident Engineer:**Pursell, Gary**Address:** 333 Burma Road**City:** Oakland, CA 94607**Report No:** SIR-002367**Date Inspected:** 14-Dec-2009**Project Name:** SAS Superstructure**OSM Arrival Time:** 700**Prime Contractor:** American Bridge/Fluor Enterprises, a JV**OSM Departure Time:** 1900**Contractor:** Zhenhua Port Machinery Company, Ltd (ZPMC), Changxing Island**Location:** Changxing Dao, Shanghai**Quality Control Contact:** William (Bill) Oak**Quality Control Present:** Yes No**Material transfer:** Yes No N/A**Sampled Items:** Yes No N/A**Stock Transfer:** Yes No N/A**OK to Cut:** Yes No N/A**Rebar Test Witness:** Yes No N/A**Delayed/Cancelled:** Yes No N/A**Other:** Coating Inspection**Bridge No:** 34-0006**Component:** Lift 1 East, Lift 3 West, Lift 3 East, Lift 4 East**Bid Item:** 77, 78, 79**Lot No:** B265**Summary of Items Observed:**

On this date Caltrans Office of Structural Materials (OSM) Quality Assurance (QA) NACE III coating inspector, Mr. James Lumley arrived on site at the Zhenhua Port Machinery Company (ZPMC) facility at Changxing Island in Shanghai, China. The purpose of the coating inspections are to monitor the surface preparation and coating applications for the SAS Bay Bridge project. This QA NACE III coating inspector observed the following:

Lift 1 East

ZPMC requested a "Final" acceptance inspection for external Top-coated surfaces. Pursuant to area observation with Caltrans Engineer Bill Howe it was deemed to be in general compliance with the contract documents.

Lift 3 West

Weld Seam NDT repair area of the Transverse Weld Bottom and Side Plates and also along the "F" Plate to Top Plate Weld Seam were undercoated with Interzinc 52 previously and ZPMC is currently applying Top coat Interfine 979 to amend repair work. Also concurrent with this work Intercure 200HS is being applied to the areas which will be embedded in concrete.

Lift 3 East

Ready to transport onto Ship #17 internal and external surfaces were inspected and found to be in general compliance with the contract documents. A Final walk through inspection will be conducted to ascertain if further repairs will be required or damages sustained after Sea Fastener installation.

Lift 4 East

ZPMC requested a "Final" inspection of the internal and external coated surfaces. External NDT area of the weld seam located at the Side Plate/Bottom Plate is incomplete and Internal surfaces still required additional minor repairs.

Lift 2 West

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Internal surfaces were observed to be incomplete and further cleaning of materials and debris is required prior to “Final” inspection being conducted. External East Side Plate and West Side Plate was Top-coated with Interfine 979.

Sub-Assemblies

Suspender Brackets which were subjected to handling and damages incurred were unwrapped and inspected for coatings damages. Minor touch up of chipped paint was in process at time of inspection. Caltrans QA Lumley informed ZPMC QC Dong Yaofei that if the damaged area exposed the substrate then the entire system must be applied ie: undercoat and Top coat, also that if damaged area only exposed the undercoat then only the undercoat was required to amend the repairs.

Cross Beams 1 &2

Internal surfaces of Cross Beam #1 were being cleaned of debris and dirt by ZPMC personnel and also ZPMC was tensioning and tightening bolted connections of Cable Tray assemblies within the Cross Beam. Cross Beam #2 was in process of cleaning of the internal undercoated surfaces.

Sub-Assemblies

Base Metal surfaces of Splice Plates and other components were abrasive blasted to an SSPC SP-10 condition and Interzinc 22 undercoat applied.

Note: All inspections were performed jointly with ABF & ZPMC QA/QC representatives and Caltrans QA Lumley when achievable. International Protective Coatings technical service representative were available for inspections and consultation.

Summary of Conversations:

No relevant conversations on this date.

Comments

This report is for the purpose of determining conformance with the contract documents and is not for the purpose of making repair or fit for purpose recommendations. Should you require recommendations concerning repairs or remedial efforts please contact Eric Tsang (858) 699-9549, who represents the Office of Structural Materials for your project.

Inspected By:	Lumley,James
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Quality Assurance Inspector

Reviewed By:	Peterson,Art
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QA Reviewer
